

**DC - 3 WIRE – STANDARD
Brass, Nickel Plated (BN),
Cylindrical, Threaded,
10-30V DC, 200mA,
1 LED for Output Energized**

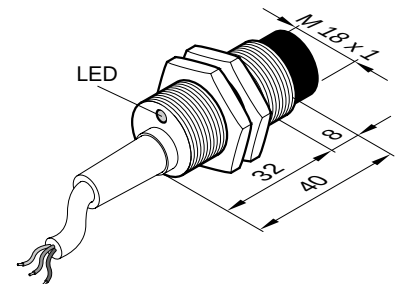
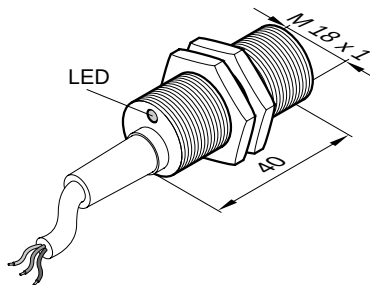
- *Most complete range of Fixed Cable and Quick Disconnect Styles*
- *Available in normally open (N.O.) and normally closed (N.C.) output configuration*
- *Industry standard 10-30V DC operating voltage and 200mA output current*
- *Carries C€ mark*

- IEC(529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Short Circuit Protection
- Overload Protection
- Reverse Polarity Protection
- Wire Break Resistance
- Temperature Range:
-25 to 70°C (-13 to 158°F)

M18 Flush Mount					M18 Non-Flush Mount			
Sensing Distance			5mm (.20 in.)			8mm (.31 in.)		
Cable or Connector Style Cat. No.			Cable	63	65	Cable	63	65
PNP	Normally Open		9964-4000	9964-4063	9964-4065	9964-4200	9964-4263	9964-4265
	Normally Closed		9964-4400		9964-4465	9964-4600		9964-4665
NPN	Normally Open		9964-4100	9964-4163	9964-4165	9964-4300	9964-4363	9964-4365
	Normally Closed		9964-4500		9964-4565	9964-4700		9964-4765
Ripple Voltage			≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Voltage Range			10V - 30V	10V - 30V	10V - 30V	10V - 30V	10V - 30V	10V - 30V
Supply Current			≤10 mA	≤10 mA	≤10 mA	≤10 mA	≤10 mA	≤10 mA
Max. Load Current			200 mA	200 mA	200 mA	200 mA	200 mA	200 mA
Voltage Drop Across Sensor			≤2.4V	≤2.4V	≤2.4V	≤2.4V	≤2.4V	≤2.4V
Max. Leakage Current			≤10 µA	≤10 µA	≤10 µA	≤10 µA	≤10 µA	≤10 µA
Switching Frequency			1000 Hz	1000 Hz	1000 Hz	500 Hz	500 Hz	500 Hz
Hysteresis			≤15%	≤15%	≤15%	≤15%	≤15%	≤15%
Temperature Drift			≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Repeatability			.25mm (.01 in.)	.25mm (.01 in.)	.25mm (.01 in.)	.40mm (.016 in.)	.40mm (.016 in.)	.40mm (.016 in.)
Front Cap Material			PBTP	PBTP	PBTP	PBTB	PBTB	PBTB

Fixed Cable

PVC 2m (6ft. 6in.). For 5m (16 ft. 5 in.) cable length, change the last two digits of the part number to 02. For other cable lengths and/or PUR cable, please consult Altech. Supplied with Brass, Nickel Plated (BN) locknuts.



63 and 65 Style Connectors

4-pin, Micro style, 12mm (.47 in.) supplied with Brass, Nickel Plated (BN) locknuts. The 63 Connector is clear, offering 360° LED viewing.

